Ministry of Natural Resources
Ontario

Hon. Alan W. Pope
Minister

John R. Sloan
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

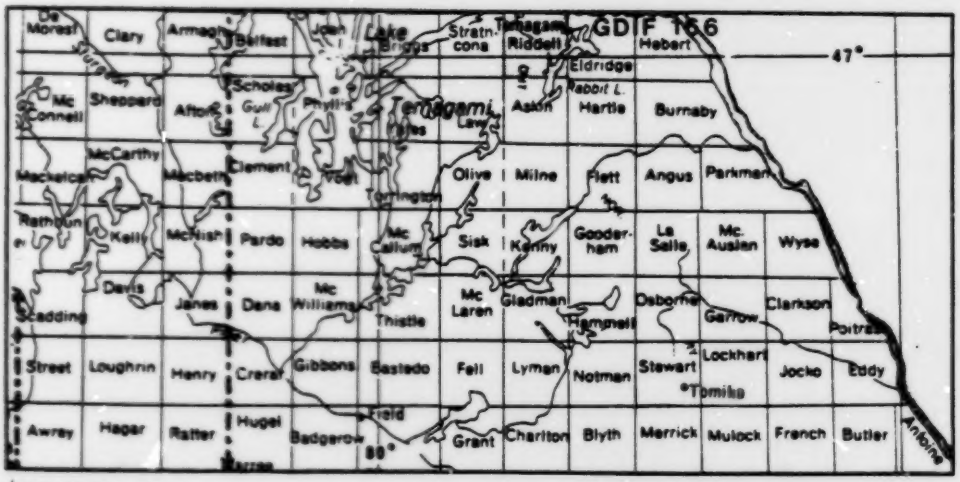
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 166

RIDDELL TOWNSHIP

DISTRICT OF NIPISSING

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

85-1187/

NTS Number 31M/4 and partof 31L/13

Mining Claim Map Number M-578

This project was funded by the Ontario Ministry of Northern Affairs through the Northern Ontario Geological Survey (NOGS) Program.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1984: Riddell Township, District of Nipissing; Ontario Geological Survey Geological Data Inventory Folio 166 , compiled by the Staff of the Resident Geologist's Office, Cobalt, 18 pages and 2 maps

Original Compilation by: Patricia Anderson, December 2, 1983

Date	Page Revised	Revised by

Date	Page Revised	Revised by

RIDDELL TOWNSHIP

TABLE OF CONTENTS

Data Sources Checklist 1
Metals and Minerals Reference List 2
Mineral Occurrences 3
Type of Work 4
Drill Hole Summary 5
Airborne Geophysical Survey Data 6
Geochemical Survey Data 7
Miscellaneous Data 8
Newspaper Clipping File 9
ODM General Index Search 10
Selected References 12
Notes and Addenda 18

ACCOMPANYING MAPS

Property Location Map - 1 map
Exploration Data Map - 1 map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0 049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	No	D.P.A.
3	ODM General Index; 7 volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	D.P.A.
9	Newspaper Clippings File	No	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	No	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	No	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Toronto	Yes	D.P.A.
24	Catalogue of Cobalt Area Rock and Mineral Samples, ODMNA OFR 5056	No	D.P.A.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . .Anhydrite
- △ ank. . . . . .Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . .Apatite
- △ arg . . . . . Argentite
- △ As . . . . . .Arsenic
- △ asp . . . . . .Arsenopyrite
- △ asb . . . . . .Asbestos
- △ ba. . . . . .Barite
- △ be. . . . . .Beryl
- △ Bi. . . . . .Bismuth
- △ bn . . . . . .Bornite
- △ bran . . . . . .Brannerite
- △ bruc . . . . . .Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . Calcite
- △ carb . . . . . .Carbonate
- △ cel . . . . . .Celestite
- △ cc. . . . . .Chalcocite
- △ cp. . . . . .Chalcopyrite
- △ ch. . . . . .Chert
- △ clay . . . . . .Clay
- ▲ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . .Columbite
- △ Cu . . . . . .Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . .Feldspar
- △ fl . . . . . .Fluorite (flurospar)
- △ fu. . . . . .Fuchsite
- ▲ gn. . . . . Galena
- △ gt. . . . . Garnet
- △ goe. . . . . .Goethite
- △ Au . . . . . Gold
- △ gf. . . . . .Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . Gypsum
- ▲ hem . . . . . Hematite
- △ il . . . . . .Ilmenite
- △ Fe . . . . . .Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . .Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- ▲ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- △ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- △ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . .Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . .Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . .Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . .Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . .Peat
- △ pent . . . . . Pentlandite
- △ Pt. . . . . .Platinum
- ▲ py . . . . . .Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . .Pyrolusite
- △ po . . . . . .Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . .Quartz carbonate vein
- △ ra. . . . . .Radioactive minerals
- △ RE . . . . . .Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . .Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . .Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . .Shale
- △ sid . . . . . Siderite
- △ si . . . . . .Silica
- ▲ Ag . . . . . .Silver
- △ sl . . . . . Slate
- ▲ sm . . . . . .Smaltite
- △ sod . . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . .Sphalerite
- △ spd . . . . . .Spodumene
- △ staur . . . . . .Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . .Stone
- △ talc. . . . . .Talc
- △ Te . . . . . .Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . .Thorite
- △ Th . . . . . .Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . .Tourmaline
- △ trap . . . . . .Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . .Uranium
- △ verm . . . . . .Vermiculite
- △ Y . . . . . Yttrium
- △ Zn . . . . . .Zinc
- △ zr. . . . . Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

RIDDELL TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Upper Twin Lake prospect	Ag, Co - major	N 0081	MDC 10, p. 43	ODM, 1925, vol. 34, pt. 3, p. 32 ODM, 1925, map 34b ODM, 1965, map P. 321
B.	Burke	Pb		MDC 12, p. 210	

GDIF FORM NO. 1

RIDDELL TOWNSHIP 4

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Goldex Mines Ltd.	73		73	73															
2	Schubert, Irwin Metron Exploration Ltd. Riddell & Strathcona Twps.	70		71 72								70	70							
3	Vaillancourt, G.			74																
4	Burke, E.W.				64															

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1a	Goldex Mines Ltd.	G-1-72	1972	209	-47	23	748	hem	
1b		G-2-72	1972	115	-60	-	701		
2	Goldex Mines Ltd.	G-3-72	1972	305	-80	-	865		
3	Burke, E.W.	1	1964	225	-53	-	150	hem, gn	
4	Burke, E.W.	6	1966	337	-30	-	100.5	py	
5	Burke, E.W.	3	1966	337	-40	-	100.2	py	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
	No data available as of December 2, 1983.				

GDIF FORM NO. 4

RIDDELL TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
	No data available as of December 2, 1983.			

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of December 2, 1983.			

LANDSAT COLOUR PHOTO - NTS 31/M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C_1	136/10

on file in Cobalt office

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Cobalt

No data available as of December 2, 1983.

ODM GENERAL INDEX SEARCH

Words searched: Burke, E.W.; Goldex Mines Ltd.; Metron Exploration Ltd.; Rabbit Lake; Riddell Twp.; Schubert, Irwin; Sunrise Lake; Timagami; Twin Lake; Vaillancourt, G.

Index Volume	Listing:	Report Volume	Part	Page
1	Riddell Twp., Nip.			
	Mining See Timagami			
	Timagami, Riddell Twp.			
	Iron Formation	*19	2	112
	Ore	*14	1	262
		*16	1	49
	Mispickel	*10		174, 179
	analysis	*14	2	23
		*16	2	9
		*19	2	20
	notes by Miller	*16	2	32
	Profile from, to Toronto	*19	2	233
2	Rabbit l., Askin and Riddell Twps.			
	Bays, trend of,	*34	3	27-29
	Cobalt-nickel ores	*34	2	32-35
	Faults, section	*34	3	19
	Maps, with	*34	3	
	Rocks on and near	*31	2	326
		*34	3	2, 14
	See also map 34b with	*34	3	
	Riddell Twp., Nip			
	See also Rabbit l.; Sunrise l.			
	Ballast. See Twin l.			
	Faults, diagram	*34	3	19
	Map, geological. See map 34b with	*34	3	
	Mineral claims	*34	3	32
	Rocks	*34	3	25
	Sunrise Lake, Riddell Twp.			
	Rocks	*34	4	25, 27

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
2	Sunrise Lake, Riddell Twp. (continued)			
	See also map 34b with	*34	3	
	Twin Lake, Riddell Twp.			
	Ballast for railway	*27	2	118
	Twin Lakes, Riddell and Strathcona Twps.			
	Diabase	*34	3	25
4	Riddell Twp., Nip.			
	Rocks	51	6	20
	* Out of Print			

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K.D. et al	1971	Sudbury-Cobalt Sheet; Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury & Timiskaming Districts, Ontario	ODMNA Map 2188	1:253 440
Card, K.D., Lumbers, s.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury & AL 5 Districts, Ontario	OGS Map 2361	1:253 440
		GEOPHYSICAL MAPS		
	1965	Timagami, Ontario, NTS 31M/4, aeromagnetic	GSC Geophysical Paper 1491 GSC Map 1491G	1:63 360
	1965	Ingall Lake, Ontario, NTS 31L/13, aeromagnetic	GSC Geophysical Paper 1490 GSC Map 1490G	1:63 360
GSC-OGS	1978	Airborne gamma-ray spectrometry maps and profiles, Ville Marie Sheet	MNR Maps 80411-80425	1:250 000
Gupta, V.K., Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, Districts of Timiskaming, Nipissing and Sudbury	OGS Map P. 2296	1:100 000
Gupta, V.K., Grant, F.S., Boud, A.	1981	A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Timiskaming; in J. Wood et al, editors, Summary of Field Work, 1981 by the OGS	OGS MP 100	No. 26 pp. 160-164
Gupta, V.K.	1982	Gravity and Aeromagnetic Studies in North-Central Ontario: A Progress Report; in J. Wood et al, editors, Summary of Field Work, 1982 by the OGS	OGS MP 106	No. 24 pp. 165-167

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
Mansinha, L., Wilkinson, D.A.	1983	Interpretation of Gravity Data from New Liskeard, Ontario; Ontario Geoscience Research Grant Program, Grant No. 109	OGS OFR 5440	
		Aeromagnetic	GSC Map 7075G	1:253 440
		Aeromagnetic	GSC Map 7076G	1:253 440
		Earth Physics Branch Gravity Map Series	EPB Maps No. 84 and 134	1:500 000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
	1951	Haileybury, Ontario, topographic	NTS 31M/SW	1:126 720
	1960	Ingall Lake, Ontario, topographic	NTS 31L/13 East	1:50 000
	1973	Timagami, Ontario, topographic	NTS 31M/4 East	1:50 000
	1976	Ville-Marie, Quebec & Ontario, topographic	NTS 31/M	1:250 000
	1978	North Bay, Ontario, topographic	NTS 31/L	1:250 000
Roed, M.A.	1979	Haileybury, NTS 31M/SW	NOEGTS 90 OGS Map 5024	1:100 000
Gartner, J.F.	1980	Tomiko, NTS 31L/NW	NOEGTS 96 OGS Map 5040	1:100 000
Veillette, J.J.	1983	Temagami, Ontario, NTS 31M/4, surficial geology	GSC Open File 949	1:50 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
	1982	Ontario Basic Map Sheets	MNR Maps 20 17 5900 52000 20 17 6000 52000 20 17 5900 52100 20 17 6000 52100	1:20 000
		Tomiko, Ontario, topographic	NTS 31L/NW	1:26 720
		Riddell Township Claim Map	MNR Map Plan No. M-578	1" = 40 ch.
		MINERAL POTENTIAL MAPS		
Springer, J.	1978	Ontario Mineral Potential, Parts of North Bay, Deep River and Ville-Marie Sheets, NTS 31 K, L & M, Nipissing & Parry Sound Districts and Renfrew County, Ontario	OGS Map P.1510	1:250 000
	1983	Industrial Minerals of Ontario	OGS Map P. 2591	1:500 000
Gordon, J.B.	1980	Vein Silver Deposits of Ontario, East Central Sheet	OGS Map P. 2300	1:1 013 760
		GEOCHEMICAL		
Drury, C.W.	1918	Cobalt; Its Occurrence, Metallurgy, Uses and Alloys	OBM Annual Report, 1918, vol. 27, pt. 3	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Barlow, A.E.	1899	Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ont., and of the County of Pontiac, Quebec	*GSC Summary Report, 1897 (1898), vol. X, pt. I *GSC Map 599	
Miller, W.G.	1901	Iron Ores of the Nipissing District	*OBM Annual Report, 1901, vol. 10 OBM Map 10a	pp. 160-180 1:15 840
Miller, W.G.	1904	Cobalt-Nickel-Arsenides and Silver	*OBM Annual Report, 1904, vol. 13, pt. 1	pp. 96-103
Young, G.A.	1904	On Surveys between Rabbit and Temagami Lakes	*GSC Summary Report, 1903, vol. XVI, pt. A *GSC Map 852	pp. 195-198 1:13 680
Miller, W.G.	1906	The Cobalt-Nickel-Arsenides and Silver Deposits of Temiskaming, Ontario	*ODM Annual Report, 1905, vol. 14, pt. 2	
Barlow, A.E.	1908	Second Edition of a Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario, and the County of Pontiac, Quebec	*GSC Separate Report 962 *GSC Map 944	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Todd, E.W.	1925	The Matabitchuan Area, Timiskaming and Nipissing Districts, Ontario	* ODM Annual Report, 1925, vol. 34, pt. 3 ODM Map 34b	1:63 360
Roscoe, S.M.	1957	Geology and Uranium Deposits Quirke Lake-Elliot Lake, Blind river Area, Ontario (preliminary report)	GSC Paper 56-1	
Thomson, R., Savage, W.S.	1965	Haileybury Sheet, Districts of Timiskaming and Nipissing, Ontario	ODM Map P. 321	1:126 720
Lumbers, S.B.	1967	Tomiko Sheet, District of Nipissing, Ont.	ODM Map P. 394	1:126 720
Roscoe, S.M.	1969	Huronian Rocks and Uraniferous Conglomerates of the Canadian Shield	GSC Paper 68-40	
Meyn, H.D.	1979	Uranium Deposits of the Cobalt Embayment; in V.G. Milne et al, editors, Summary of Field Work, 1979, by the OGS	OGS MP 90	No. S. 20 pp. 218-221
Wood, J.	1979	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in V.G. Milne et al, editors, Summary of Field Work, 1979 by the OGS	OGS MP 90	No. 18 pp. 78-81
Wood, J.	1980	Regional Geology of the Cobalt Embayment, Districts of Sudbury, Nipissing and Timiskaming; in V.G. Milne et al, editors, Summary of Field Work, 1980 by the OGS	OGS MP 96	No. 14 pp. 61-63

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Colvine, A.C.	1981	Reconnaissance of the Lorrain Formation, Northern Cobalt Embayment; in J. Wood et al, editors, Summary of Field Work, 1981 by the OGS	OGS MP 100	No. 29 pp. 187-189
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Ferguson, S.A.	1942	Banded Iron Formation of the Timagami Area, Ontario	MA. Thesis, University of Toronto, Toront	
Carlson, H.D.	1950	Intrusive rocks of Temagami District, Ontario	MA. Sc. Thesis, University of Toronto, Toronto	
		*Out of Print		

GDIF FORM NO.9

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

No present or past producers.

The Township was closed to staking in 1978 due to the Bear Island Indian Caution.

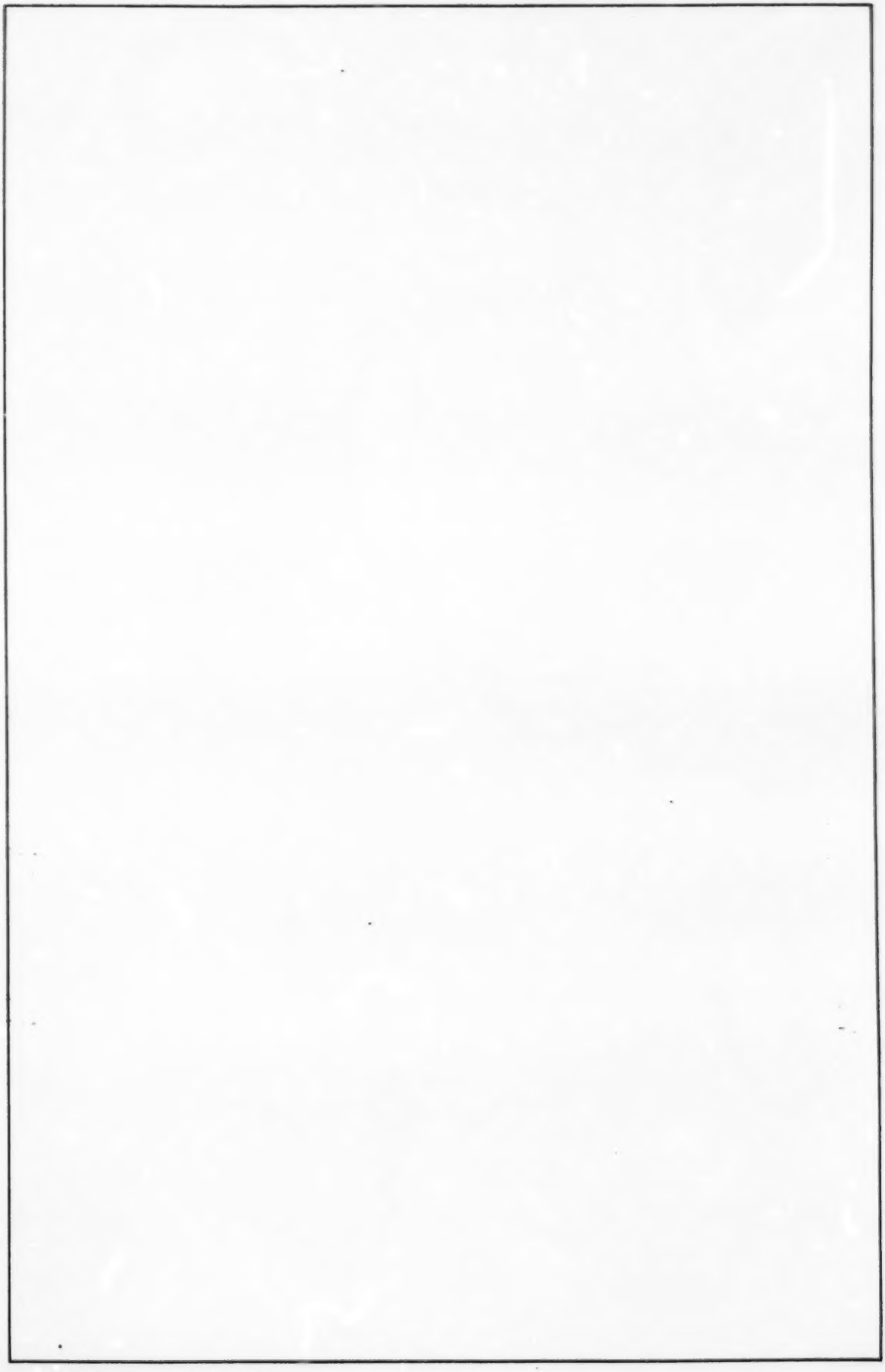
AIR PHOTOS - on file in Toronto

Only 1977 photos are available for viewing at the Public Service Centre, Rm. 1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958 and 1970.

Year	Roll	Strip	Photo
1946	50	131	26-33
	48	132	86-93
	46	133	15-22
	45	134	136-144
1958	054	4703	171-177
	055	4702	56-62
	055	4701	132-138
	055	4640	189-195
1970	37	4703	104-111
	37	4702	38-44
	49	4701	161-168
	40	4641	32-39
	40	4640	87-94
1977	8	4703	210-217
	12	4702	162-168
	12	4701	70-76
	11	4641	96-103
	12	4640	207-213

GDIF FORM NO.10



RIDDELL TOWNSHIP

MAPS NOT

FILMED

CARTES

OMISES